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PANASONIC CT-20D12D OPERATING INSTRUCTIONS MANUAL

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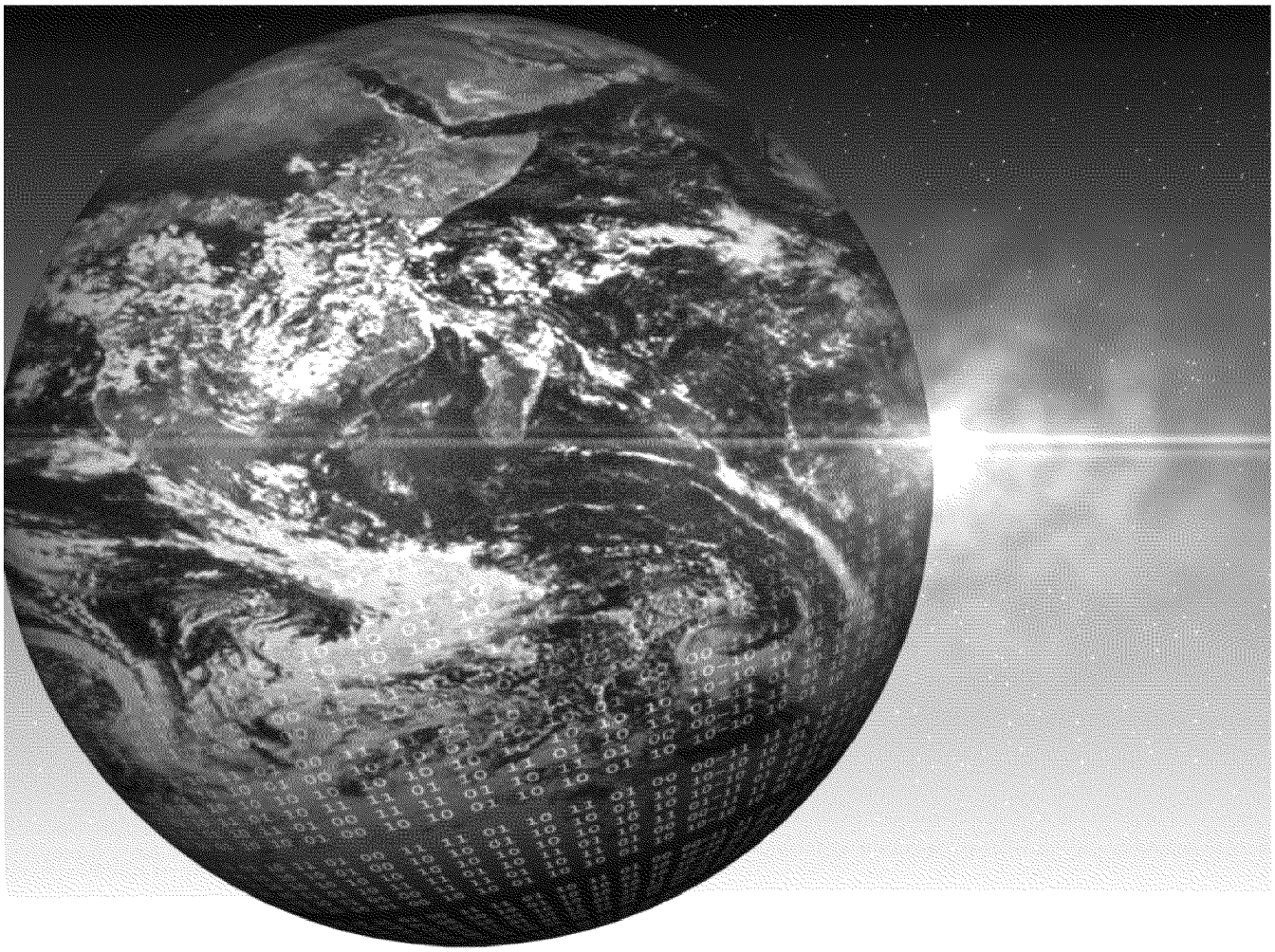
Panasonic®

Color Television
Operating Instructions

CT-20D12D	CT-27G7D	CT-27G7SDU
CT-20G7D	CT-27G7DU	CT-32G7D
	CT-27G7SD	CT-32G7DU



For assistance, please call: 1-800-211-PANA (7262) or
send e-mail to: consumerproducts@panasonic.com (USA only)

TQB2AA0431-2 22603
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WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN
WARNING: To reduce the risk of electric shock do not remove cover or back.
No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrow head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

The double insulation symbol (a square within a square) is intended to alert qualified service personnel to use only identical replacement parts in this apparatus.

FCC CAUTION: ANY CHANGES OR MODIFICATIONS TO THIS TV RECEIVER NOT EXPRESSLY APPROVED BY MATSUSHITA ELECTRIC CORPORATION OF AMERICA COULD CAUSE HARMFUL INTERFERENCE, WHICH WOULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

ENVIRONMENTAL NOTICE: THIS PRODUCT UTILIZES BOTH A CATHODE RAY TUBE (CRT) AND OTHER COMPONENTS THAT CONTAIN LEAD. DISPOSAL OF THESE MATERIALS MAY BE REGULATED IN YOUR COMMUNITY DUE TO ENVIRONMENTAL CONSIDERATIONS. FOR DISPOSAL OR RECYCLING INFORMATION PLEASE CONTACT YOUR LOCAL AUTHORITIES, OR THE ELECTRONICS INDUSTRIES ALLIANCE: <HTTP://WWW.EIAE.ORG>

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Read these instructions completely before operating television.

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Congratulations

Your new TV Monitor/Receiver features a solid state chassis that is designed to give you many years of enjoyment. It was thoroughly tested and tuned at the factory for best performance.

Customer Record

The model and serial number of this product are located on the back of the television. You should note the model and serial number in the space provided and retain as a permanent record of your purchase. This will aid in identification in the event of theft or loss. Product registration for U.S. customers is available at **www.prodreg.com/panasonic**.

Model Number

Serial Number

Care and Cleaning

Screen (Turn TV Off)

- Use a mild soap solution or window cleaner with a soft clean cloth. DO NOT USE ABRASIVE CLEANERS.
- Avoid excessive moisture and wipe dry.

Note: *Do not spray any type of cleaning fluid directly on the screen.*

Cabinet and Remote Control

- ❒ For cabinets and remote control, use a soft cloth dampened with water or a mild detergent solution. Avoid excessive moisture and wipe dry.
- ❒ Do not use benzene, thinner or other petroleum based products.

Specifications

Power Source **CT-20D12D (1.4A)** **CT-20G7D (1.4A)** **CT-27G7D (1.8A)** **CT-27G7DU (1.8A)** **CT-27G7SD (1.8A)** **CT-27G7SDU (1.8A)** **CT-32G7D (1.8A)** **CT-32G7DU (1.8A)**	120V AC, 60Hz
Channel Capability - 181	VHF-12; UHF-56; Cable-113
Video Input Jacks	1Vp-p, 75 Ohm, Phono Jack Type
Audio Input Jacks	500mV RMS 47K Ohm
Audio Output Jacks (some models)	0-2.0V RMS 4.7K Ohm
S-Video Input Jacks (some models)	S-Video (Y-C) Connector

Specifications are subject to change without notice or obligation.

Installation

Television Location

Follow these recommendations before deciding the location of your television.

- ❒ Avoid excessive sunlight or bright lights, including reflections.
- ❒ Keep away from excessive heat or moisture. Inadequate ventilation may cause internal component failure.
- ❒ Fluorescent lighting may reduce remote control transmitting range.
- ❒ Keep away from magnetic equipment, including motors, fans and external speakers.

CAUTION: Use this television receiver only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. In order to avoid injury to children, never place your television receiver on a piece of furniture that is capable of being tilted by a child leaning on it, pulling on it, standing on it, or climbing on it.

CT-27G7D, CT-27G7DU:

CAUTION: These television receivers for use only with PANASONIC TY-27G22M (TY-27G22M-PC for Canada) stand. Use with other carts (or stands) is capable of resulting in instability causing possible injury.

CT-27G7SD, CT-27G7SDU:

CAUTION: These television receivers for use only with PANASONIC TY-27G22M (TY-27G22M-PC for Canada) stand. Use with other carts (or stands) is capable of resulting in instability causing possible injury.

CT-32G7D, CT-32G7DU:

CAUTION: These television receivers for use only with PANASONIC TY-32G22M (TY-32G22M-PC for Canada) stand. Use with other carts (or stands) is capable of resulting in instability causing possible injury.

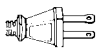
Optional Cable Connections

Shielded audio and video cables should be used between components. For best results:

- ❒ Use 75-ohm coaxial shielded cables.
- ❒ Use appropriate input and output connectors that match your component connectors.
- ❒ Avoid long cables to minimize interference.

AC Power Supply Cord

CAUTION: TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE A PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.



Polarized plug

PROTECT POWER CORDS FROM BEING WALKED ON, ROLLED OVER, CRIMPED, BENT OR PINCHED, PARTICULARLY AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPARATUS.

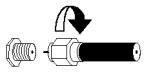
Cable / Antenna Connection

For proper reception, either a cable or antenna connection is required.

Cable Connection

Connect the cable supplied by your local cable company.

Incoming Cable from Cable Company



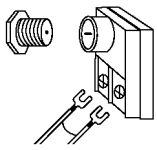
75 Ohm VHF/UHF on back of TV

Note: *A cable converter box may be required for proper reception. Check with your local cable company for compatibility requirements.*

Antenna Connection

- For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.

Incoming Cable from Home Antenna



Note: *Cable Mode is preset at the factory. Antenna users must change to TV mode in the Set Up Menu under Prog Chan.*

Feature Comparison Chart

	MODELS	CT-20D12D	CT-20G7D	CT-27G7D	CT-27G7SD	CT-32G7D
	Features					
SPECIAL FEATURES	MENU LANGUAGE ENG/SPAN/FR	❒	❒	❒	❒	❒
	CLOSED CAPTIONING	❒	❒	❒	❒	❒
	V-CHIP CAPABILITY	❒	❒	❒	❒	❒
	75 OHM INPUT	❒	❒	❒	❒	❒
	VIDEO NORM	❒	❒	❒	❒	❒
AUDIO	FM RADIO	❒				
	STEREO	❒	❒	❒	❒	❒
	AI SOUND	❒	❒	❒	❒	❒
	NUMBER OF SPEAKERS	2	2	2	2	2
A/V JACKS	A/V IN (REAR/FRONT)	1 (1/1)	1 (1/1)	1 (1/1)	1 (1/1)	1 (1/0)
	AUDIO OUT	❒				
	S-VHS INPUT	❒		❒	❒	❒
	HEADPHONE JACK	❒	❒	❒	❒	

IMPORTANT INFORMATION REGARDING THE USE OF VIDEO GAMES, COMPUTERS, OR OTHER FIXED IMAGE DISPLAYS.

WARNING: The marking or retained image on the picture tube resulting from viewing fixed image is not an operating defect and as such is not covered by Warranty.

This television is designed to display constantly moving images on the screen. Continuous viewing of stationary images such as letterbox pictures on standard screen TVs (with top/bottom bars), non-expanded standard (4:3) pictures on wide screen TVs (with side bars shown on each side of an image), stock market report bars (ticker running at the bottom of the screen), video game patterns, fixed scoreboards, bright station logos, on-line (internet) or repetitive computer style patterns should be limited.

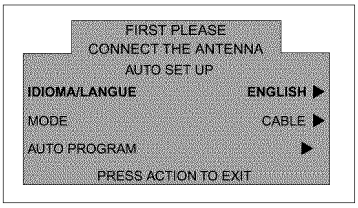
The extended use of fixed image program material can cause a permanent picture tube damage, shown as a “shadow image” viewable on normal programs. This type of irreversible picture tube deterioration can be limited by performing the following steps:

- Do not display the fixed image for extended periods of time.
- Turn the power off when not in use.

Auto Set Up Menu

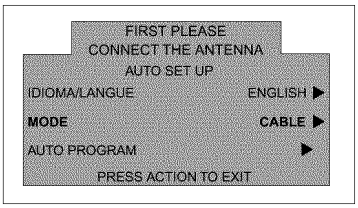
For your convenience, Auto Set up menu will be displayed on screen when the set is turned on for the first time. If needed, follow the menus and procedures for setting up the features.

- IDIOMA/LANGUE - To change menu language to ENGLISH, SPANISH or FRENCH.



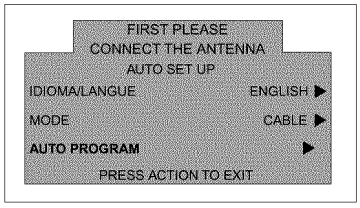
Press **VOL** ▶ to select English, Spanish or French.

- MODE - To select TV (antenna) or CABLE mode depending on the signal source.



Press **VOL** ▶ to select TV or CABLE.

- AUTO PROGRAM - To automatically program all channels with a signal.

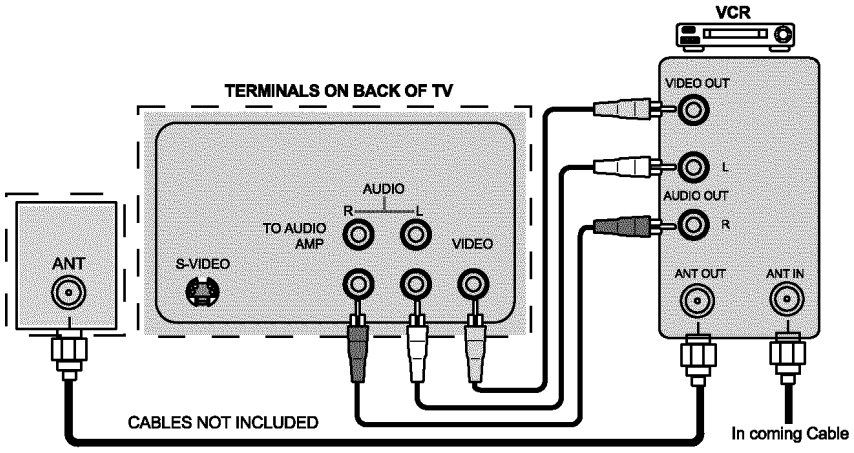


Press **VOL** ▶ to start Auto Programming.

Optional Equipment Connections

VCR Connection

Follow this diagram when connecting your television to a VCR only.



Note: *The remote control must be programmed with the supplied codes to operate the VCR.*

Amplifier Connection (TO AUDIO AMP)

(CT-20D12D only)

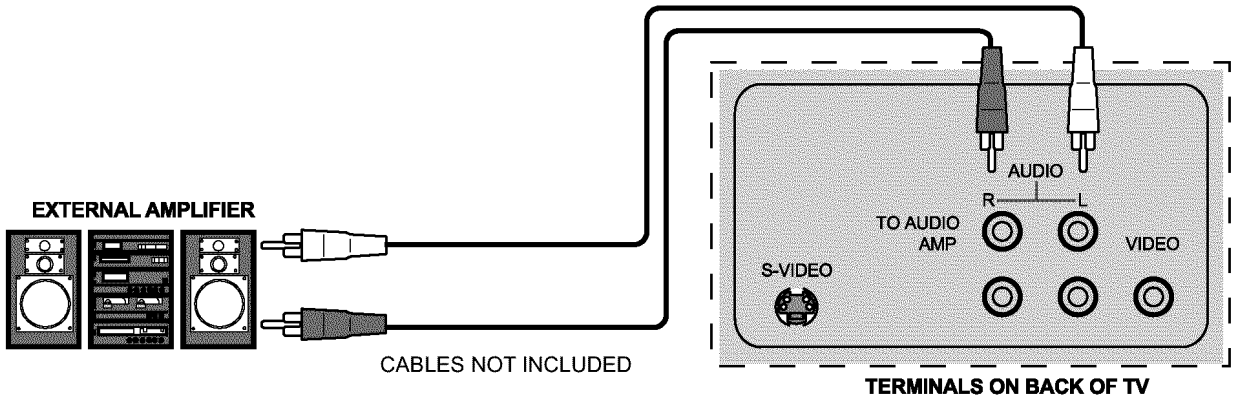
To listen through a separate stereo system, connect an external audio amplifier TO AUDIO AMP outputs on back of television.

Note: *TO AUDIO AMP terminals cannot be connected directly to external speakers.*

Audio Adjustments

1. Select SPEAKERS ON located in the onscreen AUDIO menu.
2. Set amplifier volume to minimum.
3. Adjust television volume to desired level.
4. Adjust amplifier volume to match the television.
5. Select SPEAKERS OFF & VARIABLE AUDIO OUT from AUDIO menu.
6. Volume, mute, bass, treble and balance are now controlled through the television.

Select SPEAKERS OFF & FIXED AUDIO OUT to control audio functions through the external amplifier.



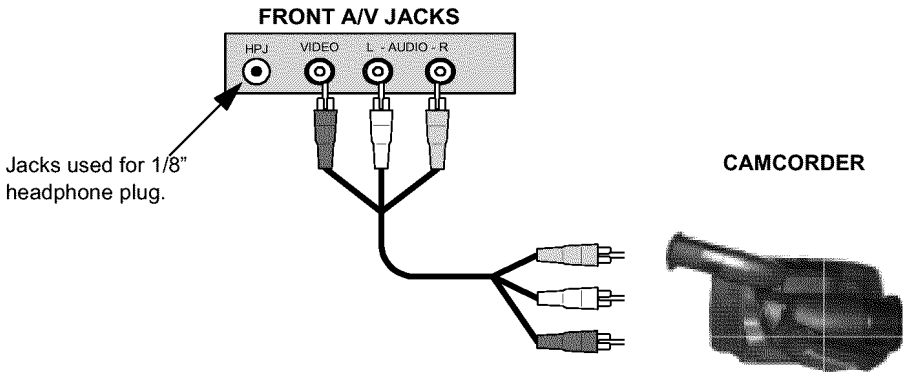
Front Control Panel

Use the front panel of the television to use the TV without remote or to use the Audio/Video input jacks (some models) for optional equipment.

TV/VIDEO

Press ◯ to select VIDEO input mode.

Note: *The front control panel can be used to access menus and switch video mode when the remote control is not available.*



A second VCR, a video disc player, video game equipment and DSS equipment can also be connected to the video inputs. See the optional equipment manual for details.

Procedure

1. Connect equipment to front or rear Audio/Video input jacks.

   Note: *Front and rear Audio/Video connections cannot be operated at the same time.*

2. Operate optional equipment as instructed in equipment manual.

Remote Control Operation

(For models CT-20G7D, CT-27G7D, CT-27G7SD and CT-32G7D only)

POWER
Press to turn ON and OFF.

VOL
Press to adjust TV sound and navigate in menus.

"0" ~ "9"
Press numeric keypad to select any channel.

R-TUNE
Press to switch to previously viewed channel or video mode.

EUR501450

MUTE
Press to mute sound. Press to display and cancel (CC) Closed Caption.

CH
Press to select next or previous channel and navigate in menus.

ACTION
Press to access menus.

TV/VIDEO
Press to select TV orVideo mode.

RECALL
Press to display time, channel, sleep timer, and other options.

Battery Installation

Use two AA batteries:

Remove battery cover by pushing in and up near arrow.
Install batteries matching (+) and (-) polarity signs.
Replace the battery cover.

Note: Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control

Precautions

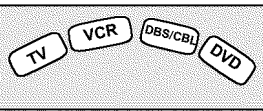
- Replace batteries in pairs.
- Do not mix battery types (zinc carbon with alkaline).
- Do not recharge, heat, short-circuit, disassemble, or burn batteries.

Remote Control Operation

(For model CT-20D12 only.)

POWER

Press to turn ON and OFF.



Press to select remote operation.

ACTION

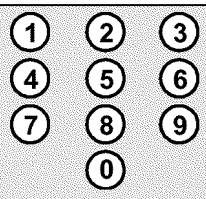
Press to access menus.

TV/VIDEO

Press to select TV, Video mode or FM mode.

MUTE

Press to mute sound. Press to display and cancel CC (Closed Caption)..



Press numeric keypad to select any channel.

R-TUNE

Press to switch to previously viewed channel or video mode.

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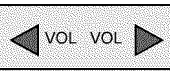
***LIGHT**

Press to illuminate remote buttons.



Press to adjust TV sound and navigate in menus.

Press to select next or previous channel and navigate in menus.

EXIT

DBS functions button.

GUIDE

DBS functions button.

RECALL

Press to display time, channel, sleep timer, and other options.

REW	PLAY	FF
TV/VCR	STOP	PAUSE
REC	VCR /DBS CH	

Component function buttons

Battery Installation

Use two AA batteries:

Remove battery cover by pushing in and up near arrow.
Install batteries matching (+) and (-) polarity signs.
Replace the battery cover.

Note: Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control

Precautions

- Replace batteries in pairs.
- Do not mix battery types (zinc carbon with alkaline).
- Do not recharge, heat, short-circuit, disassemble, or burn batteries.

*To prolong the life for the batteries, turn the light off and on by pressing R-TUNE and RECALL buttons, simultaneously.

Mode Operational Key Chart

This chart defines the keys that are opereational in the selected component modes (TV, VCR, DBS, CABLE or DVD) after programming (if needed).

KEY NAME	TV MODE	CABLE MODE	DBS MODE
POWER	POWER	POWER	POWER
MUTE	MUTE	CBL MUTE	TV MUTE
TV/VIDEO	INPUT SWITCH	TV INPUT SWITCH	TV INPUT SWITCH
CHAN UP	CHANNEL UP	CABLE CHANNEL UP	DBS NAVIGATION UP
CHAN DOWN	CHANNEL DOWN	CABLE CHANNEL DOWN	DBS NAVIGATION DOWN
VOL RIGHT	VOL +	TV VOL +	DBS NAVIGATION RIGHT
VOL LEFT	VOL -	TV VOL -	DBS NAVIGATION LEFT
ACTION	ACTION	ENTER	DBS MENU
RECALL	DISPLAY	TV DISPLAY	DBS PROG. INFO
EXIT	-	-	DBS EXIT
GUIDE	-	-	DBS GUIDE
1	DIGIT 1	DIGIT 1	DIGIT 1
2	DIGIT 2	DIGIT 2	DIGIT 2
3	DIGIT 3	DIGIT 3	DIGIT 3
4	DIGIT 4	DIGIT 4	DIGIT 4
5	DIGIT 5	DIGIT 5	DIGIT 5
6	DIGIT 6	DIGIT 6	DIGIT 6
7	DIGIT 7	DIGIT 7	DIGIT 7
8	DIGIT 8	DIGIT 8	DIGIT 8
9	DIGIT 9	DIGIT 9	DIGIT 9
0	DIGIT 0	DIGIT 0	DIGIT 0
R-TUNE	PREVIOUS CHAN OR VIDEO MODE	CABLE PREVIOUS CHANNEL	PREVIOUS DBS CHANNEL
<<REW	-	-	-
PLAY	-	-	-
>>FF	-	-	-
PAUSE	-	-	-
STOP	-	-	-
RECORD	-	-	-
TV/VCR	-	-	-
VCR/DBSCHAN ▼	-	-	DBS CHANNEL DOWN
VCR/DBS CHAN ▲	-	-	DBS CHANNEL UP
LIGHT	-REMOTE BUTTONS -		

Mode Operational Key Chart (cont'd)

KEY NAME	VCR MODE	DVD MODE
POWER	POWER	POWER
MUTE	TV MUTE	TV MUTE
TV/VIDEO	TV INPUT SWITCH	TV INPUT SWITCH
ACTION	-	SELECT
CHAN UP	-	NEXT CHAPTER
CHAN DOWN	-	PREVIOUS CHAPTER
VOL RIGHT	TV VOLUME +	NAVIGATION RIGHT
VOL LEFT	TV VOLUME -	NAVIGATION LEFT
RECALL	ONSCREEN VCR DISPLAY	DVD DISPLAY
EXIT	-	-
GUIDE	-	-
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
0	-	-
R-TUNE	-	-
<<REW	VCR REWIND	SKIP SEARCH <<
PLAY	VCR PLAY	DVD PLAY
>>FF	VCR FF	SKIP SEARCH FF>>
PAUSE	VCR PAUSE	DVD PAUSE
STOP	VCR STOP	DVD STOP
RECORD	VCR RECORD	-
TV/VCR	TV/VCR SWITCH	OPEN/CLOSE
VCR/DBS CHAN ▼	VCR CHANNEL DOWN	SLOW -
VCR/DBS CHAN ▲	VCR CHANNEL UP	SLOW +
LIGHT	REMOTE BUTTONS	

Programming The Remote

The Universal Remote Control can be programmed to operate many manufacturers' components, using the component function buttons for VCR, DVD, CABLE or DBS. Follow the procedures for programming your Remote Control with or without a code for the component.

Default Modes For Remote Control

Device	Operates	Default
TV	TV (Panasonic Only)	Panasonic TV Codes
VCR	VCR (Preset)	Panasonic VCR Codes
DBS	DBS (Preset)	Panasonic DBS Codes
CABLE	CABLE (Preset)	Panasonic DBS Codes
DVD	DVD (Preset)	Panasonic DVD Codes

Determine the manufacturer of the component and look in the table for the code.

Programming With a Code

Procedure

- Confirm that the external component is plugged in and operating.
- Turn the component off.
- Press ACTION and POWER together, **for at least 5 seconds.**
- Press appropriate component button on the Remote Control VCR, DVD, CABLE or DBS.
- Enter the 3-digit component code using the Remote Control numeric keypad (0 ~ 9 buttons).
- Press the Remote Control POWER to test the component. If the procedure was successful, the component will turn on.

Helpful Hints: Unsuccessful Code
If the component does not operate with the Remote Control, repeat the procedure using another code. (Some brands have multiple codes). If an incorrect code is entered, or if the procedure takes longer than 30 seconds, the programming will fail.

Programming Without A Code

This procedure searches all codes and is called the "sequence method."

- Confirm that the external component is plugged in and on.
- Turn the component off.
- Press ACTION and POWER together, **for at least 5 seconds.**
- Press appropriate component button on the Remote Control.
- Press VOL▶ to move forward to the next code. Press ◀VOL to move backward.
- Press the Remote Control POWER to test the component. If the procedure was successful, the component will turn on.

  Note: *Repeat the above steps until the component code is found. It may take many attempts before the correct code is found.*

- After the code is found, press ACTION to store the code.

Component Codes

The Universal Remote Control is capable of operating many component brands after entering a code. Some components may not operate because the codes are not available due to limited memory. The Universal Remote Control does not control all features found in each model.

Write the code numbers from tables in this space. This will serve as a reference if you need to program your Remote Control.				
VCR	DVD	DBS	CABLE	

Codes For VCR

Brand	Code
Admiral	135
Aiwa	127, 132
Akai	114, 115, 116, 129
Audio Dynamic	111, 139
Bell & Howell	105, 113
Broksonic	120, 126
Canon	123, 125
Citizen	106
Craig	105, 106, 129
Curtis Mathes	124, 127, 145
Daewoo	175, 124, 143
DBX	110, 111, 139
Dimensia	145
Emerson	103, 119, 120, 125, 126, 143
Fisher	105, 107, 108, 109, 113
Funai	120, 126, 134
GE	124, 133,145
Goldstar	106
Gradiente	134
Hitachi	100, 123, 145
Instant Replay	123, 124
Jensen	139
JVC	110, 111, 134,139
Kenwood	306, 310, 311, 339
LXI	100, 105, 106,107, 108, 109
Magnavox	123, 124, 131
Marantz	110, 111, 139
Marta	106
Memorex	109, 124
MGA	138, 140, 141, 147,148
Minolta	100,145
Mitsubishi	138, 140, 141, 147, 148
Multitech	104, 147
NEC	110,111, 134, 139
Olympic	123, 124
Optimus	106, 121, 128, 135

Brand	Code
Orion	120, 126
Panasonic	121,122, 123, 124
J.C. Penney	100,105, 110, 111, 124, 139, 145
Pentax	100,111, 145
Philco	120, 123, 124, 126, 131, 143
Philips	123, 124, 131
Pioneer	123
Proscan	100, 101, 102, 123, 124, 131, 133, 145, 146
Quasar	121, 122, 123, 124
Radio Shack	105, 109, 124, 133, 136, 140
RCA	100, 101,102, 123, 124, 131, 133, 145, 146
Realistic	105, 109, 124, 136, 140
Samsung	102, 104, 133
Sansui	120, 126, 139, 152
Sanyo	105, 109, 113
Scott	101, 102, 104, 109, 120, 126, 138, 140, 147, 148
Sears	100, 105, 106, 107, 108
Sharp	135, 136
Shintom	117
Signature 2000	135
Singer	117
Sony	128, 129, 130
Sylvania	123, 124, 131
Tashiro	106
Tatung	110, 111, 139
Teac	110, 111, 139
Technics	121, 122, 123, 124
Teknika	124
Toshiba	101, 146
Vector Research	111
Wards	106, 109, 135, 136, 144
Yamaha	105, 110, 111, 139
Zenith	106,144

Codes for Cable Box

Brand	Code
ABC	224
Archer	225, 232
Cableview	205, 232
Citizen	205, 222
Curtis	212, 213
Diamond	224, 225, 232
Eagle	229
Eastern	234
GC Brand	205,232
Gemini	222
General Instrument/ Jerrold	211, 219, 220, 221, 222, 223, 224, 225, 226, 227
Hamlin	212, 218, 240, 241, 242, 245
Hitachi	203, 224
Macom	203, 204, 205
Magnavox	133
Memorex	230
Movietime	205, 232
Oak	202, 237,239
Panasonic	209, 210, 214
Philips	206, 207, 228, 229, 230
Pioneer	201, 216
Pulsar	205, 232

Brand	Code
Puser	232
RCA	215
Realistic	232
Regal	212, 218, 240, 241, 242, 245
Regency	234
Rembrandt	205, 232, 237
Samsung	205
Scientific Atlanta	211, 212, 213
Slmark	201, 205
Sprucer	205, 210
Stargate	205, 232
Teleview	201, 205
Texscan	244
Tocom	235
Toshiba	204
Unika	225, 232
Universal	222, 232
Videoway	206
Viewstar	229, 230
Zenith	200, 217
Zenith / Drake Satellite	200

Codes for DVD

Brand	Code
Denon	100
Ferguson	101
JVC	109
Mitsubishi	105
Nordmende	101
Panasonic	100
Philips	103
Pioneer	102
RCA	101

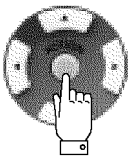
Brand	Code
Saba	101
Samsung	110
Sharp	108
Sony	104
Technics	100
Thomson	101
Toshiba	103
Yamaha	100
Zenith	107

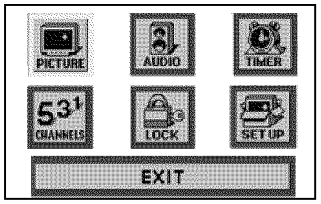
Codes for DBS

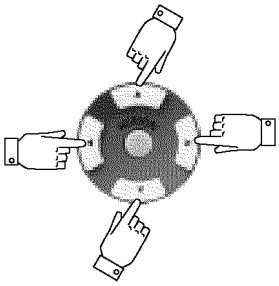
Brand	Code
Dish Network (Echostar)	105, 115, 116
Echo Star	105
Express VU	105, 115
G.E.	106
G.I. (General Instrument)	108
Gradiente	114
Hitachi	103, 111, 112
HNS (Hughes)	103

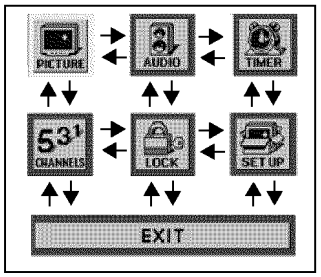
Brand	Code
Panasonic	104
Philips	101, 102
Primestar	108
Proscan	106, 109, 110, 113
RCA	106, 109, 110, 113
Sony	107
Star Choice	103, 108
Thoshiba	100
Uniden	101, 102

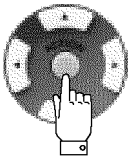
Icon Menu Navigation

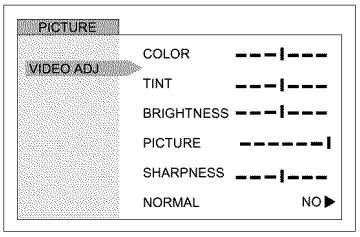
Press  to display the Icons.

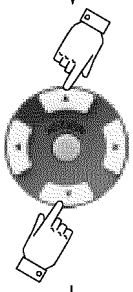


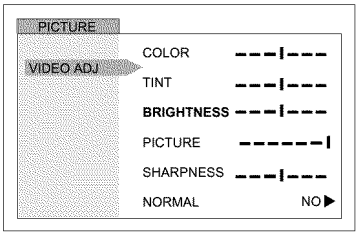
Press  to select desired icon.

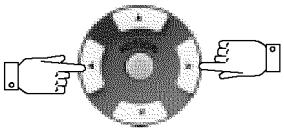


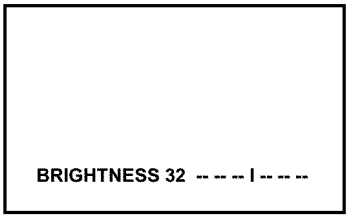
Press  to display selected Icon features.

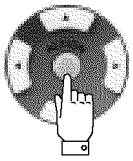


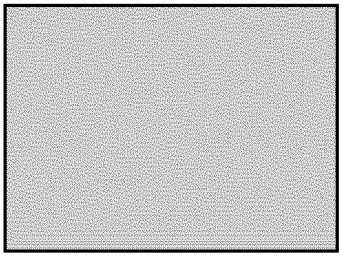
Press  to select feature.



Press  to adjust or activate feature.

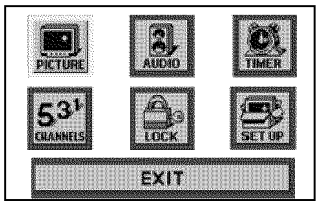


Press  repeatedly to exit menus.



NORMAL PICTURE

Main Menu Icons



Icon Menus

These charts list all menus under each Icon and which pages to refer to for menus description.

Note: **Menus may vary depending on model.*

SET UP	REFER TO PAGE
IDIOMA/LANGUE ❒ MODE - (ENGLISH, FRANÇAIS, ESPAÑOL)	17
PROG CHAN ❒ MODE - (TV or CABLE) ❒ AUTO PROGRAM ❒ MANUAL PROGRAM ***Note:*** *The following features will appear for models with FM radio when in FM mode.* ❒ *FM ANTENNA ❒ *FM PROGRAM	17 27
CC (CLOSED CAPTIONED) ❒ CC MODE	18
OTHER ADJ. ❒ AUTO POWER	18

AUDIO	REFER TO PAGE
AUDIO ADJ. ❒ MODE (STEREO, SAP or MONO)	20
OTHER ADJ. ❒ AI SOUND	20
***SPEAKERS** ❒ ON ❒ OFF & VARIABLE AUDIO OUT ❒ OFF & FIXED AUDIO OUT	20

TIMER	REFER TO PAGE
CLOCK SET ❒ TIME	19
SLEEP ❒ HOW LONG?	19
TIMER ❒ DAY ❒ ON TIME ❒ OFF TIME ❒ ENTER CHANNEL ❒ SET	19

PICTURE	REFER TO PAGE
VIDEO ADJ ❒ COLOR, TINT, BRIGHTNESS, PICTURE, SHARPNESS OR NORMAL	18

CHANNELS	REFER TO PAGE
CAPTION ❒ MANUAL CAPTION	21

LOCK	REFER TO PAGE
MODE ❒ LOCK SET - (OFF or GAME) ❒ BLOCK PROGRAM ❒ HOW LONG?	21
V-CHIP OPERATION	22

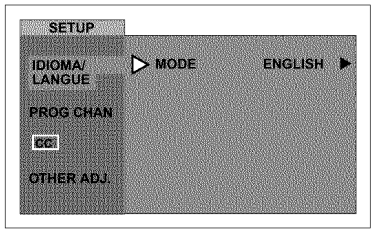
Icon Menu Operation

SET UP

Note: *Refer to page 15 for Icon Menu Navigation procedures.*

IDIOMA/LANGUE (Menu Languages)

In SET UP Menu, select IDIOMA/LANGUE to change menu language to ENGLISH, ESPAÑOL (Spanish) or FRANÇAIS (French).

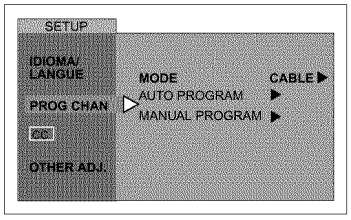


Press VOL ▶ to select English, Spanish or French.

Prog Chan (Program Channels)

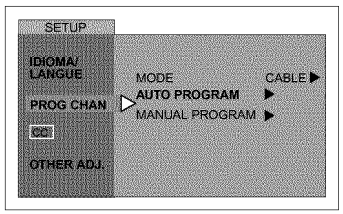
In SET UP menu under PROG CHAN select:

- ❒ MODE - To select TV (antenna) or CABLE mode depending on the signal source.



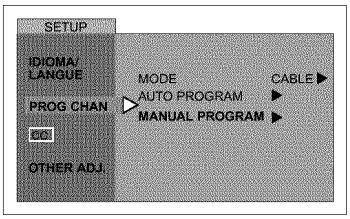
Press VOL ▶ to select TV or CABLE.

- ❒ AUTO PROGRAM - To automatically program all channels with a signal.

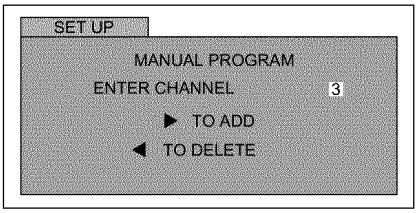


Press VOL ▶ to start AUTO PROGRAM.

- ❒ MANUAL PROGRAM - To manually add or delete channels.



Press VOL ▶ to display next menu.



Note: *Use Remote numeric keypad to enter channel numbers.*

CC (Closed Captioning)

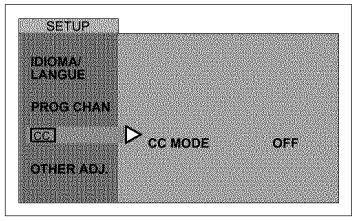
This television contains a built-in decoder that displays CC (Closed Captioned) text across the screen (white or colored letters on black background). It allows the viewer to read the dialogue of a television program or other information. The program viewed must include Closed Captioning for the feature to work.

CC Mode

Activates the onscreen Closed Caption feature by selecting one of the following modes:

- ❒ OFF - When Closed Caption is not desired.

  Note: *While in OFF mode, press MUTE button to display Closed Caption.*
- ❒ C1 - For video related information to be displayed, up to 4 lines onscreen at a time. (It does not block relevant parts of the picture). Text may be in any language.
- ❒ C2 - For other modes of video related information.



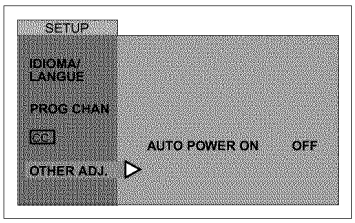
Press VOL▶ to select C1, C2, or OFF.

Note: *C1 mode is recommended for viewing Closed Caption.*

Other Adjustments

In SETUP Menu under OTHER ADJ. select:

- ❒ AUTO POWER ON - Select SET to power up the TV at the same time as the Cable box or other components or select OFF.



Press VOL▶ to select OFF or SET.

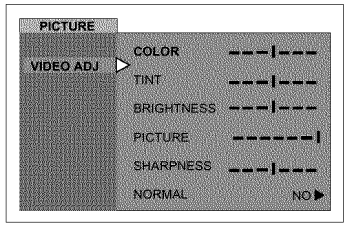
PICTURE

Note: *Refer to page 15 for Icon Menu Navigation procedures.*

Video Adj.

In Picture menu under VIDEO ADJ. select:

- ❒ COLOR - Adjusts desired color intensity.
- ❒ TINT - Adjusts natural flesh tones.
- ❒ BRIGHTNESS - Adjusts dark areas of picture.
- ❒ PICTURE - Adjusts white areas of picture.
- ❒ SHARPNESS - Adjusts clarity of outline detail.
- ❒ NORMAL - Reset all picture adjustments to factory default settings.



- ❒ Press CH▼ to select desired picture adjustment.
- ❒ Press ◀VOL or VOL▶ to adjust.

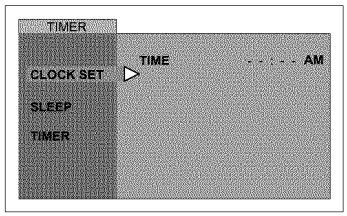
TIMER

Clock Set

Note: *Refer to page 15 for Icon Menu Navigation procedures.*

Clock Set

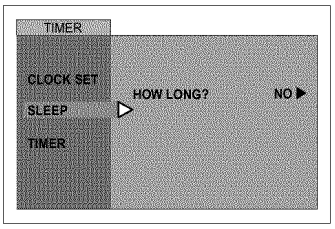
Set the time of the day.



- ❒ Press ◀ VOL or VOL ▶ to select hours AM or PM.
- ❒ Press CH ▼ to select minutes position.
- ❒ Press ◀ VOL or VOL ▶ to select minutes.

Sleep Timer

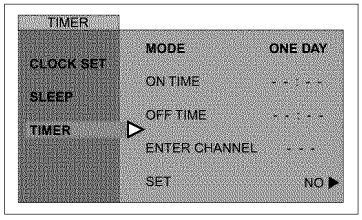
In TIMER menu, Select SLEEP to turn television off in 30, 60 or 90 minutes. Select NO to turn off timer.



Press VOL ▶ to select 30, 60, 90 or NO.

Timer

In TIMER menu, select timer to turn the television on and off at selected times, on selected channels, and on selected days.TIME must be entered in CLOCK SET to operate the TIMER features.



- ❒ Press VOL ▶ to select day or days.
- ❒ Press CH ▼ to select ON TIME, then press VOL ▶.
- ❒ Repeat for setting OFF TIME.
- ❒ Press CH ▼ to select ENTER CHANNEL, then press VOL ▶ to select channel.
- ❒ Press CH ▼ to select SET, then press VOL ▶ to select NO, ONE DAY or DAILY.

Turn Off After 90 Minutes
The television automatically turns OFF after 90 minutes when turned ON by the TIMER. If the OFF time is selected or if a key is pressed, the automatic OFF after 90 minutes will be cancelled.

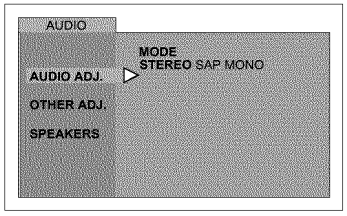
TIMER Activation
The TIMER is active when the television is OFF or ON. The television will switch to the selected channel at the selected time set in the TIMER.

AUDIO

Note: *Refer to page 15 for Icon Menu Navigation procedures.*

Audio ADJ.

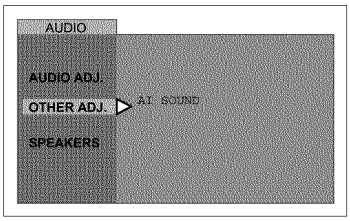
❒ MODE - Select STEREO, SAP (Second Audio Program) or MONO. (Use MONO when stereo signal is weak).



Press VOL ▶ to select STEREO, SAP or MONO.

Other ADJ.

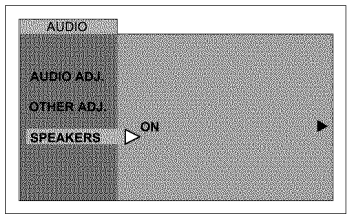
❒ AI SOUND - Equalize overall volume levels across all channels. (AI sound is not available in VIDEO mode).



Press VOL ▶ to select ON or OFF.

Speakers (some models)

In AUDIO menu under SPEAKERS:



Press VOL ▶ to select:

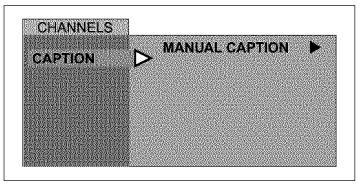
❒ ON - TV speakers operate normally.
❒ OFF & Variable Audio Out - TV speakers off - audio adjustable by television.
❒ OFF & Fixed Audio Out - TV speakers off - audio adjustable by the external amplifier only.

CHANNELS

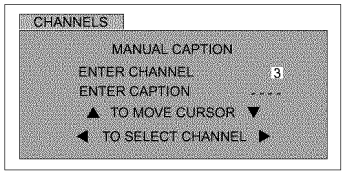
Caption

Manual Caption

Provide labels for up to 30 stations using up to four characters for each station.



Press VOL▶ to display next menu.



- ❒ Use remote numeric keypad to select desired channel (refer to your local TV guide).
- ❒ Press CH▼ to select ENTER CAPTION.
- ❒ Press ◀VOL or VOL▶ to select characters.

LOCK

Note: *Refer to page 15 for Icon Menu Navigation procedures.*

Mode

Lock Set

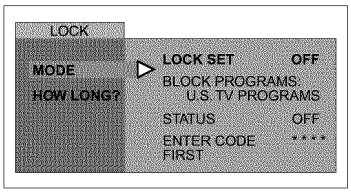
Select LOCK SET to prevent video games and VCR tapes from being viewed.

- ❒ Use the remote numeric keypad to enter a four-digit secret code (*Use a code that is easy to remember and record it in a safe place).*

Notes:

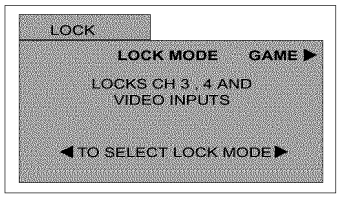
- If you do not remember your code, LOCK will unlock in 12, 24, or 48 hours, depending on the current setup. Be cautious when selecting ALWAYS. If ALWAYS is selected, and you forget your secret code, the TV must be serviced by a qualified technician to clear the LOCK setup.
- If you select CHANGE CODE, and you change your code from the one used in the LOCK menu, your new code becomes the controlling code.

❒ OFF - Turns Lock function off.

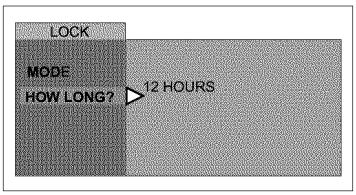


Press VOL▶ to display LOCK MODE GAME menu.

❒ GAME - Lock CH 3, 4 and Video inputs.



- ❒ Press ACTION● twice.
- ❒ Press CH▼ to highlight HOW LONG?.
- ❒ Press VOL▶ to select 12 Hours, 24 Hours, 48 Hours or ALWAYS.

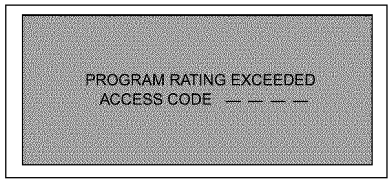


V-CHIP Menu Operation

Note: *Refer to page 15 for Icon Menu Navigation procedures.*

BLOCKING MESSAGE

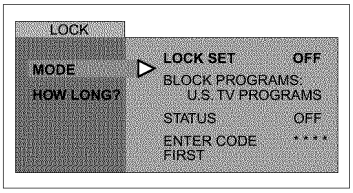
If V-Chip is enabled and the program exceeds the rating limit set by you, the blocking message will appear and the audio will be muted. Enter your four-digit secret code if you wish to continue viewing the program. After entering your code, all locks and rating blocks are disabled until the TV is turned off or until all settings are off.



Note: *If you enter your four-digit secret code to override rating blocks, you must reset all rating blocks by either reprogramming or turning the TV off.*

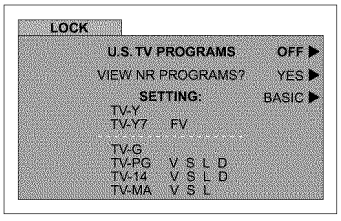
U.S. TV PROGRAMS

This TV model features the "V-Chip technology" which allows you to use U.S. TV PROGRAMS Guide ratings to block various types of TV programs. PIP will also be blocked automatically.

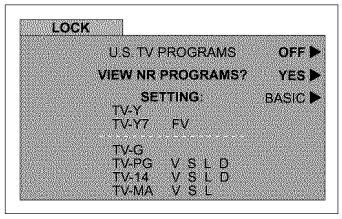


- ❒ Use the numeric keypad to enter your four digit code. (***Use a code that is easy to remember and record it in a safe place.***)
- ❒ Press CH ▼ to enter the BLOCK PROGRAMS field.
- ❒ Press ◀ VOL or VOL ▶ to select U.S. TV PROGRAMS.
- ❒ Press CH ▼ to highlight STATUS.
- ❒ Press ◀ VOL or VOL ▶ to display U.S TV PROGRAMS RATING CHART.

U.S. TV Programs Rating



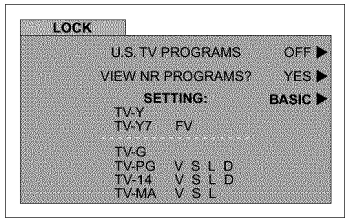
- ❒ Press VOL ▶ to select U.S. TV PROGRAMS ON or OFF.
- ❒ Press CH ▼ to select VIEW NR PROGRAMS?



- ❒ Press VOL ▶ to select VIEW NR PROGRAMS? YES or NO.

Note: *Selecting "Yes", NR programs will be received. Selecting "NO", NR programs will be blocked. See Customer Caution below.*

- ❒ Press CH ▼ to select SETTING.

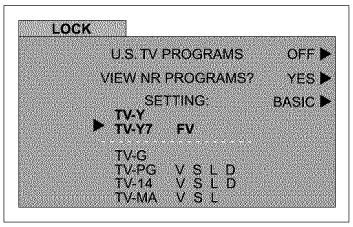


- ❒ Press VOL ▶ to select BASIC or DETAILED.

BASIC - Allows you to select only general ratings such as TV-Y, TV-PG, etc.

DETAILED - Allows you to select both general ratings and content such as V, L, etc.

U.S. TV Programs Menu Chart (cont'd)



- ❒ Press CH ▲ or CH ▼ to move between different ratings.
- ❒ Use ◀ VOL or VOL ▶ to select ratings you want to block (RED) and unblock (GREEN).

Note: *See the U.S. TV PROGRAMS RATINGS CHART.*

- ❒ Press ACTION ● twice to return to MODE in Lock menu.
- ❒ Press CH ▼ to select HOW LONG?
- ❒ Press ◀ VOL or VOL ▶ to select 12, 24, 48 hours or ALWAYS.

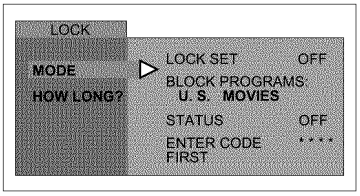
Customer Caution
The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) per FCC Rules Section 15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:" • Emergency Bulletins (Such as EAS messages, weather warnings and others) • Locally originated programming • News • Political • Public Service Announcements • Religious • Sports • Weather

U.S. TV PROGRAMS RATINGS CHART

NR	**Not Rated. SEE CUSTOMER CAUTION above.**
TV-Y	**All children.** The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	**Directed to older children.** Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	**General audience**. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	**Parental guidance suggested**. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	**Parents strongly cautioned**. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
TV-MA	**Mature audiences only.** This program may contain mature themes, profane language, graphic violence, and explicit sexual content.
FV	**FANTASY/CARTOON VIOLENCE**
V	**VIOLENCE**
S	**SEX**
L	**OFFENSIVE LANGUAGE**
D	**DIALOGUE WITH SEXUAL CONTENT**

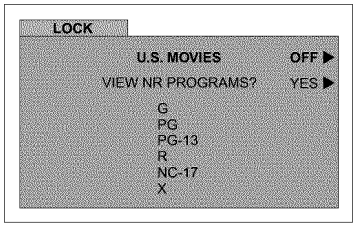
U.S. MOVIES

This TV model features the "V-Chip technology" which allows you to use Motion Picture Ratings when viewing movies or video tapes. This innovation allows parents to block various types of movies and video tapes at their discretion.

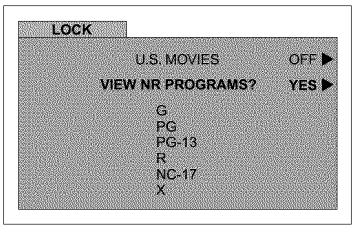


- ❒ Use the numeric keypad to enter your four digit code. (*Use a code that is easy to remember and record it in a safe place.*)
- ❒ Press CH ▼ to enter the BLOCK PROGRAMS field.
- ❒ Press ◀ VOL or VOL ▶ to select U.S. MOVIES.
- ❒ Press CH ▼ to highlight STATUS.
- ❒ Press ◀ VOL or VOL ▶ to display U.S MOVIES RATING CHART.

U.S. Movies Menu

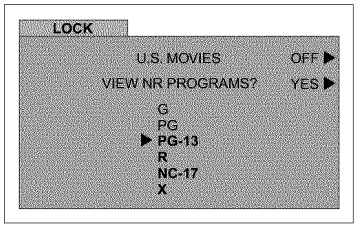


- ❒ Press VOL ▶ to select U.S. MOVIES ON or OFF.
- ❒ Press CH ▼ to select VIEW NR PROGRAMS?



Press VOL ▶ to select VIEW NR PROGRAMS? YES or NO.

Note: *Some movies are not rated for a variety of reasons. Old movies and foreign films are usually not rated.*



PG-13, R, NC-17 and X will be blocked.

- ❒ Press CH ▲ or CH ▼ to move between different ratings.
- ❒ Use ◀ VOL or VOL ▶ to select ratings you want to block (**RED**) and unblock (**GREEN**).

Note: *See the U.S. MOVIES CHART.*

- ❒ Press ACTION ● twice to return to MODE in Lock menu.
- ❒ Press CH ▼ to select HOW LONG?
- ❒ Press ◀ VOL or VOL ▶ to select 12, 24, 48 hours or ALWAYS.

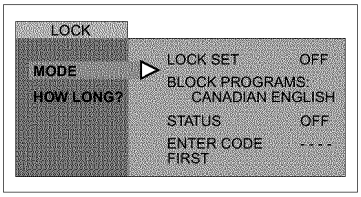
U.S. MOVIES RATINGS CHART

NR	**CONTAINS NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS**. Movie has not been rated or rating does not apply.
G	**GENERAL AUDIENCES.** All ages admitted.
PG	**PARENTAL GUIDANCE SUGGESTED.** Some material may not be suitable for children.
PG-13	**PARENTS STRONGLY CAUTIONED**. Some material may be inappropriate for children under 13.
R	**RESTRICTED.** Under 17 requires accompanying parent or adult guardian.
NC-17	**NO ONE 17 AND UNDER ADMITTED**.
X	**ADULTS ONLY.**

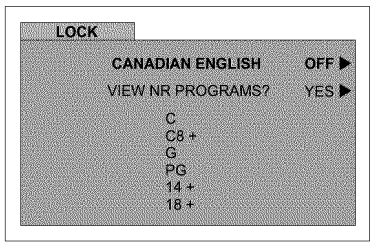
Rating Systems for Canada

Canadian English

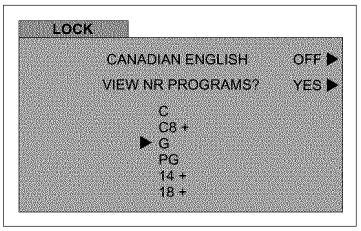
The V-CHIP used in this TV model allows you to block various types of movies and television programs based on the two rating systems used in Canada.



- ❒ Use the numeric keypad to enter your four digit code. (*Use a code that is easy to remember and record it in a safe place.*)
- ❒ Press CH ▼ to enter the BLOCK PROGRAMS field.
- ❒ Press ◀ VOL or VOL ▶ to select CANADIAN ENGLISH.
- ❒ Press CH ▼ to highlight STATUS.
- ❒ Press ◀ VOL or VOL ▶ to display CANADIAN ENGLISH RATING CHART.

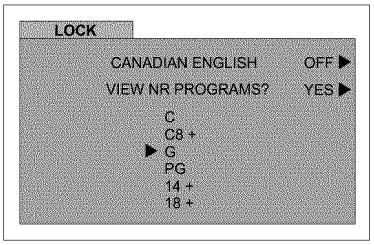


- ❒ Press VOL ▶ to select CANADIAN ENGLISH ON or OFF.
- ❒ Press CH ▼ to select VIEW NR PROGRAMS?



Press VOL ▶ to select VIEW NR PROGRAMS? YES or NO.

Note: *Not rated programs include: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.*



- ❒ Press CH ▲ or CH ▼ to move between different ratings.
- ❒ Use ◀ VOL or VOL ▶ to select ratings you want to block (**RED**) and unblock (**GREEN**).

Note: *See the U.S. MOVIES CHART.*

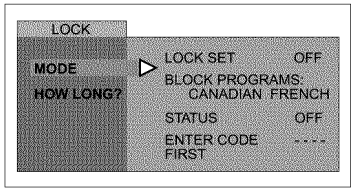
- ❒ Press ACTION ● twice to return to MODE in Lock menu.
- ❒ Press CH ▼ to select HOW LONG?
- ❒ Press ◀ VOL or VOL ▶ to select 12, 24, 48 hours or ALWAYS.

CANADIAN ENGLISH RATINGS CHART

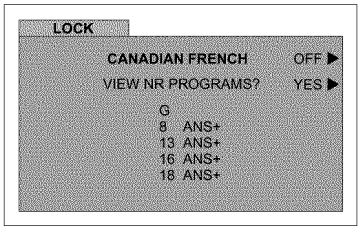
NR	**Not Rated - Not rated programs include: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.**
C	**Programming intended for children under age 8. No offensive language, nudity or sexual content.**
C8+	**Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.**
G	**General programming, suitable for all audiences.**
PG	**Parental Guidance suggested. Some material may not be suitable for children.**
14+	**Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.**
18	**ADULTS ONLY**

Canadian French

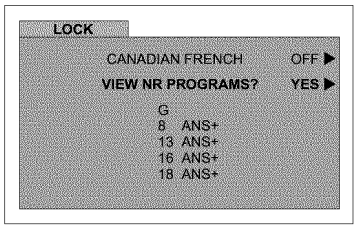
The V-CHIP used in this TV model also lets you block or unblock Canadian French programs according to various ratings categories.



- ❒ Use the numeric keypad to enter your four digit code. (*Use a code that is easy to remember and record it in a safe place.*)
- ❒ Press CH ▼ to enter the BLOCK PROGRAMS field.
- ❒ Press ◀ VOL or VOL ▶ to select CANADIAN FRENCH.
- ❒ Press CH ▼ to highlight STATUS.
- ❒ Press ◀ VOL or VOL ▶ to display CANADIAN FRENCH menu rating chart.

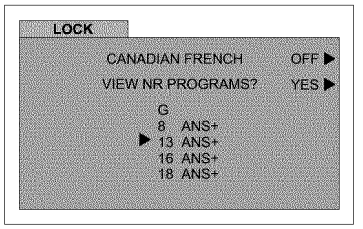


- ❒ Press VOL ▶ to select CANADIAN FRENCH ON or OFF.
- ❒ Press CH ▼ to select VIEW NR PROGRAMS?



Press VOL ▶ to select VIEW NR PROGRAMS? YES or NO.

Note: *Not Rated programs include: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.*



13ANS+, 16ANS+ and 18ANS+ will be blocked

- ❒ Press ▲ CH or CH ▼ to move between different ratings.
- ❒ Use ◀ VOL or VOL ▶ to select ratings you want to block (**RED**) and unblock (**GREEN**).

Note: *See the CANADIAN FRENCH RATING CHART.*

- ❒ Press ACTION ● twice to return to MODE in Lock menu.
- ❒ Press CH ▼ to select HOW LONG?
- ❒ Press ◀ VOL or VOL ▶ to select 12, 24, 48 hours or ALWAYS.

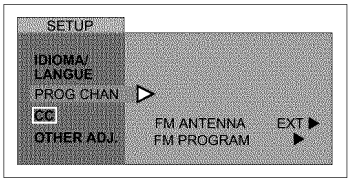
CANADIAN FRENCH RATINGS CHART

NR	**Non rated programming.**
G	**General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately.**
8 ans +	**8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.**
13 ans +	**Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested.**
16 ans +	**Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.**
18 ans +	**Programming restricted to adults. Contains constant violence or scenes of extreme violence.**

FM Radio Operation

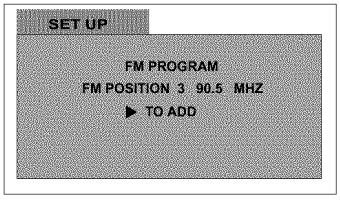
(For model CT-20D12D only)

Some televisions have built-in FM tuner. You can pre-program up to 9 different FM stations for easy access.



- ❒ Press TV/VIDEO button on the remote control twice to get into FM mode.
- ❒ Press ACTION button to display MENU Icons.
- ❒ Press ▲▼ or ◀▶ to highlight the SET UP icon.
- ❒ Press ACTION button to display the SET UP menu.
- ❒ Press ▲ or ▼ button to highlight PROG CHAN.
- ❒ Press ▶ button to highlight FM ANTENNA

.



- ❒ Press ◀ or ▶ button to select INT (INTERNAL) or EXT (EXTERNAL).
  - INT - For Cable TV users.
  - EXT - For Antenna users.
- ❒ Press ▼ button to highlight FM Program.
- ❒ Press ▶ button to display FM PROGRAM screen
- ❒ Press numeric keys 1 through 9 on the remote control to select the appropriate FM position.
- ❒ Press ▲ or ▼ button to select the desired FM frequency.
- ❒ Press ▶ button to add the station to memory.
- ❒ Repeat steps 10 through 12 until all 9 positions have been programmed into memory.
- ❒ Press ACTION button to exit the programming menu.

Note: *You can select any of the 9 stations by pressing the appropriate number button on the remote control, while in FM mode.*

Helpful Hint:
In FM mode, at no volume or in Mute mode, there is no indication that the TV set is on. Volume should be kept at an audible level.

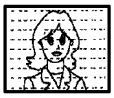
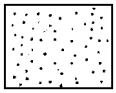
Tuning FM station manually

In FM mode, press ▲ or ▼ button to change the station frequency.

Note: *While in FM mode, press **R-TUNE** button to toggle between TV and FM radio mode.*

Troubleshooting Chart

Before calling for service, determine the symptoms and follow suggested solutions.

AUDIO	VIDEO	Solutions
Noisy Audio	Snowy Video	Adjust Antenna Location and Connection
Noisy Audio	Multiple Image	Adjust Antenna Location and Connection Check Antenna Lead-in Wire
Noisy Audio	 Interference	Move television from Electrical Appliances, Lights, Vehicles and Medical Equipment
No Audio	Normal Video	Increase Volume Check Mute Check television SPEAKERS on/off Change Channel
Noisy Audio	 No Video with Snow	Set TV or Cable Mode Properly Check Antenna Cables
No Audio	No Video	Check Power Cord is Plugged into Active Outlet Adjust Brightness and Audio Controls Change Channel Check Cable Connections Program the Remote Control Again Check Second Video Source Operation
Normal Audio	No Color	Adjust Color Settings Change Channel
Wrong Audio	Normal Video	Check Audio Is Set To Stereo or Mono, Not SAP
Normal Audio	Normal Video	Replace Remote Control Batteries
Intermittent Remote Control Operation		

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF:
MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY,
DIVISION OF:
MATSUSHITA ELECTRIC OF PUERTO RICO, INC., Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Color Television
Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

TV CATEGORIES	ALL PARTS EXCEPT CRT	CRT	LABOR	SERVICE
9"-21" diagonal	1 (ONE) YEAR	2 (TWO) YEARS	90 DAYS	CARRY-IN
22"-27" diagonal	1 (ONE) YEAR	2 (TWO) YEARS	90 DAYS	IN-HOME OR CARRY-IN
31"-36" diagonal	1 (ONE) YEAR	2 (TWO) YEARS	1 (ONE) YEAR	IN-HOME OR CARRY-IN

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in your product or arrange for in-home service (in-home service available only for 22" [diagonal] and larger screen), as applicable, during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-in or In-Home Service

For Carry-In or In-Home Service (as applicable) in the United States call 1-800-211-PANA(7262) or visit Panasonic Web Site: http://www.panasonic.com
For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty continued on next page

Limited Warranty continued from previous page

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TVís, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-211-PANA (7262), Monday-Friday 9am - 9pm; Saturday-Sunday 9am - 7pm, EST.

Web Site: http://www.panasonic.com
You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Service in Puerto Rico
Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicenter:
Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787) 750-4300 Fax (787) 768-2910

LIMITED WARRANTY (For models sold in Canada only)

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

For the term(s) of any individual product warranty, consult your retailer or contact Panasonic Canada Inc. as indicated below under WARRANTY SERVICE.

LIMITATIONS AND EXCLUSIONS

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For product operation and information assistance, please contact your Dealer or our Customer Care Centre at:
Telephone #: (905) 624-5505 Fax #: (905) 238-2360 Web: www.panasonic.ca

For product repairs, please contact one of the following:

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- Our Customer Care Centre at (905) 624-5505 or www.panasonic.ca
- A Panasonic Factory Servicentre listed below:

Richmond, British Columbia	Calgary, Alberta	Mississauga, Ontario	Lachine, Québec
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IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.

Include details of the defect claimed, and proof of date of original purchase.

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